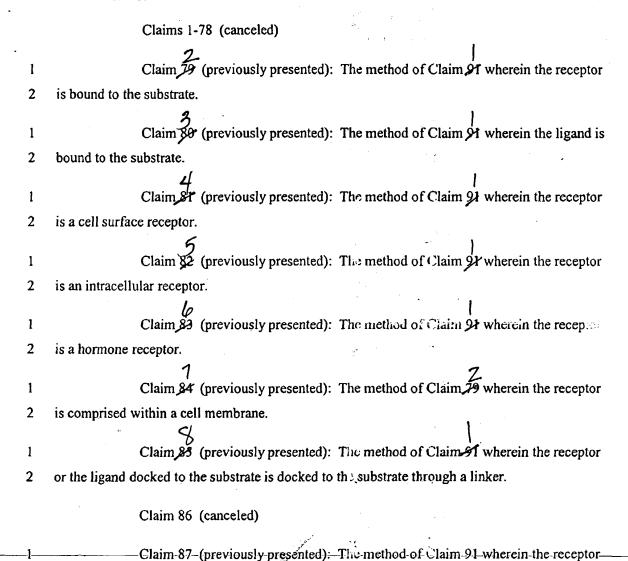
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

2



or the ligand docked to the substrate comprises a furion protein.

Page 2 of 6

1	Claim 88 (previously presented): The method of Claim 92 wherein the moiety
2	for specific binding is an Fc fragment and the receptor or the ligand docked to the substrate is
3	docked to the substrate through protein A.
1	Claim 89' (currently amended): The method of Claim 91' wherein the agent is a
2	small organic molecule having a size up to about 5000 daltons.
1	Claim 90 (previously presented): The method of Claim 93 wherein said plurality
2	of agents comprises a combinatorial library.
1	l Claim 91 (currently amended): A method for determining whether an agent
2	modulates binding between a receptor/ligand pair that specifically bind to each other, the method
3	comprising the steps of:
4	a) providing a mass spectrometry probe, the probe comprising a substrate having
5	a surface and a receptor or ligand of said receptor/ligand pair docked to a surface of the substrate
6	through an adsorbent;
7	b) exposing the receptor or the ligand docked to the substrate to its binding
8	partner and to said agent under an elution conditions that allows for binding between the receptor
9	and the ligand;
10	c) removing unbound binding partner from the surface of the substrate;
11	d) measuring the amount of binding partner retained on bound to the docked
12	receptor or ligand in the presence and absence of the agent by laser desorption mass
13	spectrometry of any retained bound binding partner from the surface of the substrate; and
14	e) determining whether the agent modulates binding by comparing the measured
15	amount of binding between the receptor and the ligand in the presence and absence of the agent
16	whereby a difference between the measured amount of binding between the receptor and ligand
17	in the presence and absence of the agent indicates that the agent modulates binding between the
18	receptor/ligand pair.

1	Claim 92 (previously presented): The method of Claim 87 wherein the fusion
2	protein further comprises a moiety for specific binding.
1	Claim 93 (previously presented): The method of Claim 91, wherein said method
2	is a screening method and said agent comprises a plurality of agents, whereby said plurality of
3	agents is screened by determining whether said plurality of agents modulates binding between a
4	receptor/ligand pair that specifically bind to each-other.
1	Claim 94 (previously presented): The method of Claim 93, wherein said plurality
2	of agents is screened in parallel.
1	/O Claim 95 (previously presented): The method of Claim 85, wherein the linker is
2	a bifunctional linker.
1	Claim 96 (previously presented): The method of any one of Claim 91 or-Glaim
2	93 wherein said agent inhibits binding between said receptor/ligand pair.
1	Claim 97 (previously presented): The method of any one of Claim 91 or-Claim
2	93 further comprising applying a matrix material to the surface before laser desorption mass
3	spectrometry.
1	13 Claim,98 (previously presented): The method of any one of any one of Claim 91
2	or Claim-93 wherein the probe further comprises energy absorbing molecules chemically bound
3	to the surface before exposing.